CONTENTS

Tectonophysics Volume 193

Special issue: Investigation of Historical Earthquakes in Europe (edited by M. Stucchi, D. Postpischl and D. Slejko)

Preface VIII

Some glimpses at historical seismology
Vogt, J. (Strasbourg-Robertsau, France) 1

Palaeoseismology: review of the state-of-the-art
Vittori, E., Sylos Labini, S. and Serva, L. (Rome, Italy) 9

Palaeoseismicity from karst sediments: the "Grotta del Cervo" cave case study
Postpischl, D. (Bologna, Italy), Agostini, S. (Chieti, Italy), Forti, P. (Bologna, Italy) and Quinif, Y. (Mons, Belgium) . 33

The seismic cataclysm of 29 March 1000: genesis of a mistake
Alexandre, P. (Brussels, Belgium) 45

Earthquakes felt in Trieste from the Middle Ages to the 18th century
Degasperi, C., Slejko, D., Rebez, A. and Cergol, M. (Trieste, Italy) 53

Investigation of 18th century seismicity in Central Italy in the light of the 1741 Fabriano earthquake
Stucchi, M. (Milan, Italy), Monachesi, G. and Mandrelli, F.M. (Macerata, Italy) 65

The effects of the November 1, 1755 "Lisbon" earthquake in Morocco
Levret, A. (Fontenay-aux-Roses, France) 83

Historical earthquakes in Central Italy: case histories in the Marche area
Monachesi, G., Castelli, V. and Vasapollo, N. (Macerata, Italy) 95

The 14 January 1810 earthquake in Mór, Hungary: the first isoseismal map
Stegenga, L. and Szeidovitz, G. (Budapest, Hungary) 109

The 1846 Orciano (Pisa) earthquake in published sources and government survey documents
Albini, P. (Milan, Italy), Moroni, A. (Pisa, Italy) and Bellani, A. (Milan, Italy) 117

The 1887 Ligurian earthquake: a detailed study from contemporary scientific observations
Ferrari, G. (Bologna, Italy) 131

Soil liquefaction: case histories in Italy
Berardi, R., Margottini, C., Molin, D. and Parisi, A. (Rome, Italy) 141

Macroseismic intensity versus epicentral distance: the case of Central Italy
Grandori, G., Drei, A., Perotti, F. and Tagliani, A. (Milan, Italy) 165

Source geometry of historical events retrieved by synthetic isoseismals
Panza, G.F., Craglietto, A. and Suhadolc, P. (Trieste, Italy) 173

Problems regarding the macroseismicity of the Calabro-Sicilian region: a review
Bottari, A. (Messina, Italy), Carveni, P. (Catania, Italy), Frederico, B. (Messina, Italy), Lo Giudice, E. (Catania, Italy), Pietrafasa, M. and Teramo, A. (Messina, Italy) 185

Focal mechanism of an earthquake of Baroque age in the "Regno delle Due Sicilie" (Southern Italy)
Chiaruttini, C. and Siro, L. (Trieste, Italy) 195

The Algerian earthquake of 24 June 1910: a case history
Ambraseys, N.N. (London, U.K.), Vogt, J. (Strasbourg-Robertsau, France) and Adams, R.D. (Newbury and Reading, U.K.) 205

Some ideas for a databank of macroseismic data
Postpischl, D. (Bologna, Italy), Stucchi, M. and Bellani, A. (Milan, Italy) 215

Short Papers

Destructive historical earthquakes in Soviet Armenia
Nikonov, A.A. (Moscow, U.S.S.R.) 225

An outline of historical seismicity studies in Catalonia
Olivera, C., Banda, E. and Roca, A. (Barcelona, Spain) 231

Problems regarding the investigation of the 1790 Orán seismic period
López Marinas, J.M. and Salord, R. (Madrid, Spain) 237

Macroseismic characteristics of the main earthquakes of the 19th century in Southern Italy: a review
Marturano, A., Esposito, E., Porfido, S. and Luongo, G. (Naples, Italy) 241

The use of historical data in earthquake prediction: an example from water-level variations and seismicity
Mucciarelli, M. (Bergamo, Italy) and Albarello, D. (Bologna, Italy) 247

Special Issue: Earthquake Prediction (edited by M. Wyss)

Introduction 253
Maps of expected earthquakes based on a combination of parameters
Sobolev, G.A., Chelidze, T.L., Zavyalov, A.D., Slavina, L.B. and Nikoladze, V.E. (Moscow and Tbilisi, U.S.S.R.) ... 255
Structure of optimal strategies in earthquake prediction
Molchan, G.M. (Moscow, U.S.S.R.) 267
Seismicity rate variations and systematic changes in magnitudes in teleseismic catalogs
Habermann, R.E. (Boulder, Colo., U.S.A.) 277
Spatial variations in seismicity on the eastern Chinese mainland
Fu, Z. (Beijing, P.R. of China) 291
Temporal characteristics of some earthquake sequences in Greece
Latoussakis, J., Stravakakis, G., Drakopoulos, J., Papanastassiou, D. and Drakatos, G. (Athens, Greece) 299
Changes in the magnitude–frequency *b*-value prior to large ($M \geq 6.0$) earthquakes in Japan
Imoto, M. (Ibaraki-ken, Japan) 311
Microseismic activity around the western extension of the 1967 Mudurnu Earthquake fault
Iio, Y. (Kyoto, Japan), Gürbüz, C. (Istanbul, Turkey), Nishigami, K. (Kyoto, Japan), Pinar, A., Aybey, N., Üçer, S.B. (Istanbul, Turkey), Honkura, Y. (Tokyo, Japan) and Işakara, A.M. (Istanbul, Turkey) 327
Geological evidence for the last two faulting events on the North Anatolian fault zone in the Mudurnu Valley, western Turkey
Ikeda, Y., Suzuki, Y. (Tokyo, Japan), Herece, E., Şaroğlu, F. (Ankara, Turkey), Isıkara, A.M. (Istanbul, Turkey) and Honkura, Y. (Tokyo, Japan). 335
Multidisciplinary research on fault activity in the western part of the North Anatolian Fault Zone
Honkura, Y. (Tokyo, Japan) and Işikara, A.M. (Istanbul, Turkey) 347
A strategy of tectonomagnetic observation for monitoring possible precursors to earthquakes in the western part of the North Anatolian Fault Zone, Turkey
Oshiman, N. (Tokyo, Japan), Tunçer, M.K. (Istanbul, Turkey), Honkura, Y. (Tokyo, Japan), Bariş, S., Yazici, O. and Işikara, A.M. (Istanbul, Turkey) 359
Constraints on the usefulness of gravimetry for detecting precursory crustal deformations
Lambert, A. and Bower, D.R. (Ottawa, Ont., Canada) 369
Pore-pressure variation as a precurosry phenomenon: the need for and a list of supplementary data
Kümpel, H.-J. (Kiel, F.R.G.) 377
Well-level variation as a possible seismic precursor: a statistical assessment from Italian historical data
Albarello, D. (Siena, Italy), Ferrari, G., Martinelli, G. (Bologna, Italy) and Mucciarelli, M. (Bergamo, Italy) 385
Earthquake forerunners in a selected area of Northern Italy: recent developments in automatic geochemical monitoring
Martinelli, G. and Ferrari, G. (Bologna, Italy) 397

Contents Volume 194 411